AMENDMENTS TO THE CLAIMS

- 1. (Cancelled)
- 2. (Cancelled)
- 3. (Cancelled)
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- 44. (Cancelled)

45. (Currently Added) A method to allocate a network resource to a buyer agent operating on a buyer server, the method including:

receiving a data message from the buyer agent, the data message associating a bid with the network resource, and

based on the bid and an allocation rule, allocating the network resource to the buyer agent.

- 46. (Currently Added) The method of claim 45, where receiving includes: receiving a data message at a resource agent operating on a resource server.
- 47. (Currently Added) The method of claim 45, where the network resource includes at least one of: a bandwidth, a buffer space, and a processing time.
- 48. (Currently Added) The method of claim 45, where:
 the buyer agent is associated with a user, and,
 the buyer agent operates on a buyer server located remotely from a computer associated with the user.
 - 49. (Currently Added) The method of claim 45, where: the buyer agent is associated with a user, and, the data message is based on data provided by the user.
- 50. (Currently Added) The method of claim 45, where the bid is based on at least one of:
 - a buyer allocation rule for determining an allocation of a network resource,
 - a buyer valuation rule for determining a value of the network resource, and
- a buyer strategy rule for determining a bid for a network resource based on the buyer allocation rule and the buyer valuation rule.
- 51. (Currently Added) The method of claim 45, where the bid is based on a truthful best reply strategy.

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- 52. (Currently Added) The method of claim 45, where the bid is based on a measurement of the network resource.
- 53. (Currently Added) The method of claim 50, where the allocation rule is identical to the buyer allocation rule.
- 54. (Currently Added) The method of claim 45, where the allocation rule includes one of: an English Auction allocation rule, a continuous bid-ask allocation rule, a progressive second price auction allocation rule, and a hold option allocation rule.
- 55. (Currently Added) The method of claim 45, where allocating includes: generating at least one command based on a resource control protocol for allocating the network resource.
- 56. (Currently Added) The method of claim 45, where allocating includes: generating at least one command based on one of SNMP and COPS for allocating the network resource.
- 57. (Currently Added) The method of claim 45, where allocating includes: generating at least one command for at least one device for controlling the network resource.
- 58. (Currently Added) The method of claim 45, further including: receiving a data message from a seller agent operating on a seller server, the data message associating a network resource with an offer to sell.
 - 59. (Currently Added) The method of claim 45, further including: transmitting a data message to the buyer agent including data based on at least one of: an available quantity of the network resource, an allocation of the network resource,

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a bid from the buyer agent,
a bid from a different buyer agent, and
an offer to sell from a seller agent operating on a seller server.

- 60. (Currently Added) The method of claim 45, further including:
 transmitting a data message to the buyer agent notifying the buyer agent that a bid
 received from the buyer agent is less than a bid received from a different buyer agent.
- 61. (Currently Added) The method of claim 60, further including: receiving a data message from the buyer agent associating an updated bid with the network resource.
- 62. (Currently Added) The method of claim 45, further including:
 receiving a data message from the buyer agent associating an allocated network resource
 with a different buyer agent, and

based on the data message, reallocating the allocated network resource to the different buyer agent.

63. (Currently Added) The method of claim 45, further including: storing data based on at least one of:

an available quantity of a network resource,
an allocation of a network resource,
a bid from a buyer agent, and
an offer to sell from a seller agent operating on a seller server.

- 64. (Currently Added) A system to allocate a network resource from a resource agent operating on a resource server, the system including:
 - a buyer server, and
- a buyer agent operating on the buyer server, the buyer agent capable of generating a bid for the network resource, transmitting a data message to the resource server, the data message

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associating a bid with the network resource, and receiving an allocation of the network resource from the resource agent.

- 65. (Currently Added) The system of claim 64, where the buyer agent is capable of generating a bid for a network resource including at least one of a bandwidth, a buffer space, and a processing time.
- 66. (Currently Added) The system of claim 64, where the buyer agent is capable of generating a bid for a network resource based on at least one of:

data received from a user associated with the buyer agent,

- a buyer allocation rule for determining an allocation of the network resource,
- a buyer valuation rule for determining a value of the network resource, and
- a buyer strategy rule for determining a bid for the network resource based on the buyer allocation rule and the buyer valuation rule.